

ABSTRACT

An objective optical element to be used for an optical pickup device for performing reproducing and/or recording of information to a first optical information recording medium and a second optical information recording medium by converging a light beam having a wavelength λ_1 ($640 \text{ nm} \leq \lambda_1 \leq 670 \text{ nm}$) on the first optical information recording medium having a protective substrate thickness t_1 , and by converging a light beam having a wavelength λ_2 ($400 \text{ nm} \leq \lambda_2 \leq 415 \text{ nm}$) on the second optical information recording medium having a protective substrate thickness t_2 ; wherein an optical system magnification m_1 satisfies a relation of $|m_1| < 0.01$, and wherein an optical system magnification m_2 satisfies a relation of $|m_2| < 0.01$.